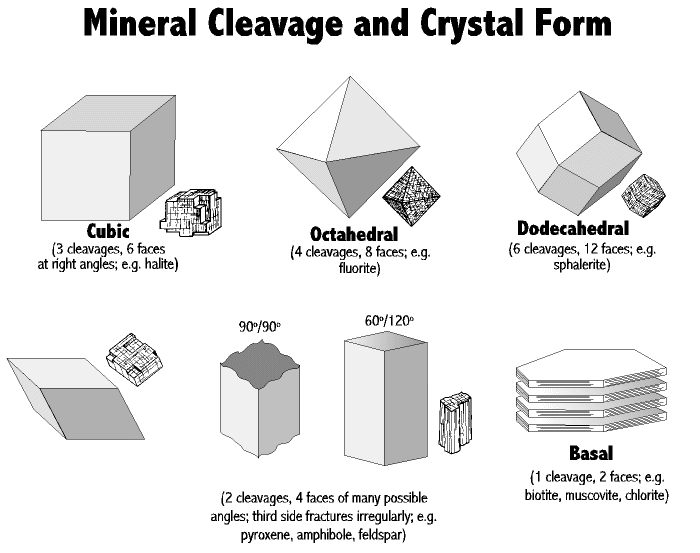
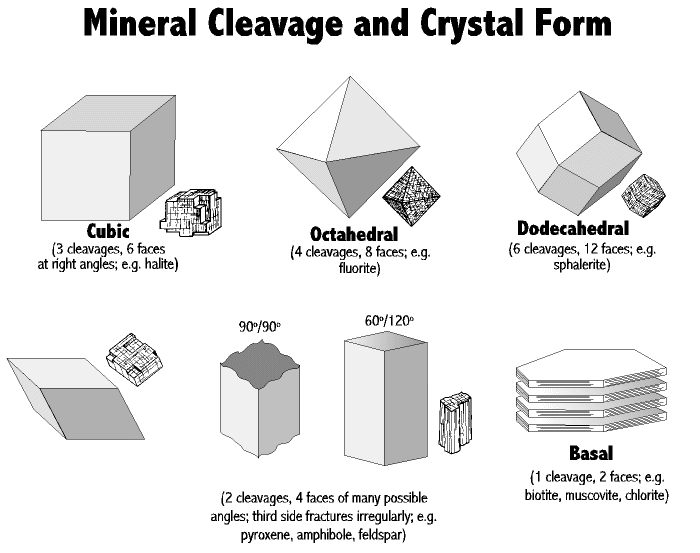
Earth Science Study Guide

MINERALS

* 1. What are minerals?
  2. How do we identify the different types of minerals?
     1. Color
        1. What factors influence the natural color of minerals?
           1. Oxidation of iron – rusting – What’s the color change?
           2. Tarnishing of copper – What’s the color change?
     2. Streak
        1. What is a mineral streak?
        2. Why is the relationship between mineral hardness and streak?
        3. Why is streak more reliable than color?
     3. Hardness
        1. Mohs hardness scale
        2. Know the hardness of your fingernail –useful for identifying what minerals?
        3. Know the hardness of the scratch-plate – useful for identifying what minerals?
        4. What is the hardness of diamond?
     4. Luster
        1. Metallic vs Non-metallic
     5. Cleavage
        1. Useful for identifying what mineral?
        2. What is the role of crystal structure in determining cleavage?
           1. Calcite crystal structure
           2. Mica crystal structure
     6. Fracture
     7. Fizzes with acid
        1. Useful for identifying what mineral
        2. CaCO3 + 2HCL CaCl + H2O + 2CO2
     8. Magnetism
        1. Useful for identifying what mineral?
     9. Taste
        1. Useful for identifying what mineral?
     10. Definitions from our Crystal Growing Lab
         1. Solvent
         2. Solute
         3. Solution vs. Super-saturated solution
         4. Dissolve
         5. Insoluble vs. Soluble
         6. Precipitate